



APPLIED THERMAL ENGINEERING



Editor-in-Chief: *David A. Reay*

DESIGN . PROCESSES . EQUIPMENT . ECONOMICS

Also available on

SCIENCE  DIRECT®

www.sciencedirect.com

APPLIED THERMAL ENGINEERING

DESIGN · PROCESSES · EQUIPMENT · ECONOMICS

Volume 27, Numbers 2-3

February 2007

CONTENTS

- Review*
- P. G. CHARALAMBOUS, 275 Photovoltaic thermal (PV/T) collectors: A review
G. G. MAIDMENT, S. A. KALOGIROU
and K. YIAKOUUMETTI
- A. BEN-NAKHI and M. A. MAHMOUD 287 Conjugate natural convection in the roof cavity of heavy construction building during summer
- N. AGRAWAL and 299 Studies on a two-stage transcritical carbon dioxide heat pump cycle with flash intercooling
S. BHATTACHARYYA
- J. DONG, J. CHEN, Z. CHÉN and 306 Air-side thermal hydraulic performance of offset strip fin aluminum heat exchangers
Y. ZHOU
- M. S. RADWAN, M. A. ISMAIL, 314 Jojoba methyl ester as a diesel fuel substitute:
S. M. S. ELFEKY and Preparation and characterization
O. S. M. ABU-ELYAZEED
- H. LIU, M. WANG, J. WANG, 323 Monte Carlo simulations of gas flow and heat transfer in vacuum packaged MEMS devices
G. ZHANG, H. LIAO,
R. HUANG and X. ZHANG
- A. SRIDHAR and K. S. REDDY 330 Transient analysis of modified cuboid solar integrated collector storage system
- C. O. R. NEGRÃO, P. C. TONIN and 347 Supervision of the thermal performance of heat exchanger trains
M. MADI
- H. S. YÜCESU, A. SOZEN, 358 Comparative study of mathematical and experimental analysis of spark ignition engine performance used ethanol-gasoline blend fuel
T. TOPGÜL and E. ARCAKLIÖĞLU
- H.-F. ZHANG, X.-S. GE, 369 Heat conduction and heat storage characteristics of soils
H. YE and D.-S. JIAO
- S. Y. LIAO, D. M. JIANG, 374 Determination of the laminar burning velocities for mixtures of ethanol and air at elevated temperatures
Z. H. HUANG, K. ZENG and Q. CHENG
- J.-Q. DENG, P.-X. JIANG, 381 Particular characteristics of transcritical CO₂ refrigeration cycle with an ejector
T. LU and W. LU
- D. AQUARO and M. PIEVE 389 High temperature heat exchangers for power plants: Performance of advanced metallic recuperators

[continued on inside back cover]



ELSEVIER



1359-4311(200702)27:2-3;1-J

Indexed/Abstracted in: *Appl. Mech. Rev.*, *Res. Alert*, *Cam. Sci. Abstr.*,
Chemical Abstracts Service, *Curr. Cont./Eng. Tech. & Appl. Sci.*, *Curr. Tech. Ind.*,
EIC Intell., *Eng. Ind.*, *Metals Abstr.*, *Curr. Cont.* *SCISEARCH Data.*, *TCEA*